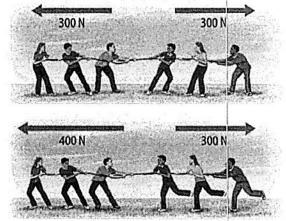
Name Key	Date
Forces Notes	Science 7
Aim: I can describe what causes objects to move	or stay still.
Directions: Read pages 33-35 in your textbook. It out this note sheet.	Jse the information AND diagrams to help you fill
Define Force:	
A push or pull on an obje	ct
3	
How are forces described?	
A force is described by its strength and direction in direction of a force can be represented the direction of the force.	n which it acts. The <u>Strength</u> and nted by an <u>QYYUW</u> , which points in
The SI unit for force is the Newton a	and is abbreviated with the letter _ N
How do forces affect motion?	Balanced and Unbalanced Forces
The combination of all forces on an object is calle Net force .	d the 300 N 300 N

Use the picture to the right to complete the chart below.

Type of Force	Equal in Strength?	Will the object's motion change?
Balanced	Yes	No
Unbalanced	No	Ves



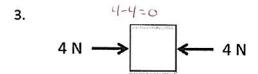
Rules for Calculating Net Force

- By calculating net force, you will determine the strength of the net force in Newtons and an arrow showing the direction of movement.
- When two forces are in the same direction, they are _____added_____ together.
- When forces are in opposing directions, the <u>Smaller</u> force is always subtracted from the <u>larger</u> force.

Examples:

1. 4 N ←

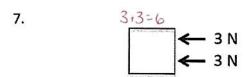
Net Force: 4 N to the left



Net Force: ON



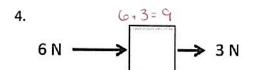
Net Force: 4N to the left



Net Force: 6 N to the left



Net Force: 5N to the left



Net Force: 9 N to the right



Net Force: 1 N to the left

8.
$$2 \cdot 4 = 6$$

$$4 \times 9$$

Net Force: 1 N to the right